#### INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/001483

CLASSIFICATION OF SUBJECT MATTER Int. Cl. 7: A61M 1/12 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI IPC A61M/- A61F/- A61B/- + keywords: (aort, heart, arter, balloon, inflat, assist, pump, pulsat, rhythm, attach, glue, suture, staple, clip, adhere) DOCUMENTS CONSIDERED TO BE RELEVANT Category\* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. WO 2002/024254 A2 (IMPERIAL COLLEGE INNOVATIONS LIMITED) 28 March X 2002 1-11, 15-22 Pages 1-36 WO 2002/024255 A1 (SUNSHINE HEART COMPANY PTY LTD) 28 March 2002 x Pages 1-15 1-5, 15 WO 2000/076288 A2 (SUNSHINE HEART COMPANY PTY LTD) 21 December x 2000 1-5, 7, 11, 15 Pages 1-16 Patent Abstracts of Japan, JP 10-328297 (BUAAYU:KK) 15 December 1998 Α See patent family annex x Further documents are listed in the continuation of Box C Special categories of cited documents: document defining the general state of the art which is later document published after the international filing date or priority date and not in not considered to be of particular relevance conflict with the application but cited to understand the principle or theory underlying the invention earlier application or patent but published on or after the document of particular relevance: the claimed invention cannot be considered novel international filing date or cannot be considered to involve an inventive step when the document is taken NT N document which may throw doubts on priority claim(s) document of particular relevance; the claimed invention cannot be considered to or which is cited to establish the publication date of involve an inventive step when the document is combined with one or more other another citation or other special reason (as specified) such documents, such combination being obvious to a person skilled in the art document referring to an oral disclosure, use, exhibition "&" document member of the same patent family or other means document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 22 November 2004 2 6 NOV 2004 Name and mailing address of the ISA/AU Authorized officer AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA Sue Thomas E-mail address: pet@ipaustralia.gov.au Facsimile No. (02) 6285 3929 Telephone No: (02) 6283 2454

### INTERNATIONAL SEARCH REPORT

International application No. PCT/AU2004/001483

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

x	t Document Cited in Search Report	Patent Family Member					
JP	10328297	NIL					
WO	2000076288	AU	50548/00	BR	0011464	CA	2375962
		EP	1185319	US	2004167376		
WO	200224255	AU	91488/01	EP	1318848	US	2004073080
wo	200224254	AU	90088/01	BR	0114087	CA	2421812
		EP	1379294	US	2003233023		

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX

# PATENT COOPERATION TREATY

From the:

INTERNATIONAL SEARCHING AUTHORIT	ar (		11110
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To:			PCT
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SPRUSON & FERGUSON GPO Box 3898			
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SIDNEY NSW 2001		INTERNATIO	NAL SEARCHING AUTHORITY
			(PCT Rule 43bis.1)
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		Date of mailing	2 C NON 2001
	.	(day/month/year)	2 6 NOV 2004
Applicant's or agent's file reference		FOR FURTHER ACT	
644616c			See paragraph 2 below
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/AU2004/001483	28 October 2004		30 October 2003
International Patent Classification (IPC) or		otion and IDC	
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Int. Cl. 7 A61M 1/12			
Applicant			
SUNSHINE HEART COMPANY	Y PTY LTD et al		•
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1. This opinion contains indications relat	ting to the following it	ėms:	
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1	1		
Box No. II Priority			
		novelty, inventive step a	nd industrial applicability
Box No. IV Lack of unity of inv			•
X Box No. V Reasoned statement	t under Rule 43bis.1(a)(i nations supporting such s	) with regard to novelty, i	nventive step or industrial applicability;
Box No. VI Certain documents			
Box No. VII Certain defects in the	he international applicati	on	
Box No. VIII Certain observation	ns on the international ap	plication	
2. FURTHER ACTION			
If a demand for international preliminary	examination is made, th	is opinion will be consid	ered to be a written opinion of the International
Preliminary Examining Authority ("IPE/	A") except that this does	not apply where the appli	cant chooses an Authority other than this one to
Searching Authority will not be so consider	Airied the international B	ureau under Ruie 00.10ts	(b) that written opinions of this International
		ninion of the IPFA the ar	oplicant is invited to submit to the IPEA a
written reply together, where appropriate	with amendments, hefe	ore the expiration of 3 mo	nths from the date of mailing of Form
PCT/ISA/220 or before the expiration of	22 months from the price	rity date, whichever expi	res later.
For further options, see Form PCT/ISA/2			
2 For further details connetes to Form DCT/I			

Name and mailing address of the IPEA/AU Authorized Officer AUSTRALIAN PATENT OFFICE SUE THOMAS PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929 Telephone No. (02) 6283 2454

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/001483

Box	x No. I	Basis of the opinion				
1.	With reg	gard to the language, this opi	nion has been estab	lished on the basis of item.	f the international applicat	ion in the language in
	The the	is opinion has been establish following language ernational search (under Rule	ed on the basis of a	translation from the o	original language into aslation furnished for the p	urposes of
2.	With reg	gard to any nucleotide and/o invention, this opinion has b	r amino acid seque een established on t	ence disclosed in the the basis of:	international application a	and necessary to the
	a. type	of material				
		a sequence listing	,			
		table(s) related to the sequ	ence listing			
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3.	- F1	addition, in the case that mo ed or furnished, the required the application as filed or do	statements that the	information in the su	ibsequent or additional cop	ones as adentical to that
4.	Additio	onal comments:		*		

2.

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/001483

аррисаниту, спанона	and explanations supporting such statement	<del></del>
Statement		
Novelty (N)	Claims 8, 12-14, 17-22	YES
	Claims 1-7, 9-11, 15, 16	NO
Inventive step (IS)	Claims 12-14	YES
	Claims 1-11, 15-22	NO
Industrial applicability (IA)	Claims 1-22	YES
	Claims	NO

#### 2. Citations and explanations:

- D1 WO 2002024254
- D2 WO 2002024255
- D3 WO 2000076288

## NOVELTY (N) Claims 1-7, 9-11, 15, 16

Claims 1-5, 15: The features defined in each of these claims are provided in each of the citations D1, D2, D3.

For example the features of claim 1 are provided in D1 as follows:

Directly attaching a heart assist device to the exterior of an arterial vessel

Pages 14-21

Heart assist device includes inflatable balloon or chamber

Figure 1

Similarly for the other listed claims and citations.

Claims 7, 11: The features of each of these claims are provided by each of citations D1 and D3, similarly to the above.

Claims 6, 9, 10, 16: The features of each of these claims are provided by D1, similarly to the above.

### INVENTIVE STEP (IS) Claims 1-11, 15-22

Claims 1-7, 9-11, 15, 16: Since these claims lack novelty, they also lack inventive step.

Claims 8, 17-22: Since the features added by these claims, methods of attachment, are well known in the art they cannot provide inventive step for the application.